

## AMENDMENTS

Amendments to the Claims

Please amend the claims according to the following listing of the claims.

Listing of the claims

1. (currently amended) A bipolar plate for PEM fuel cells comprising a plastic structure having a surface zone including gas-transport channels, the plastic structure comprising a polymer blend which is filled with conductivity-enhancing carbon fillers and which includes at least two mutually nonmiscible blend polymers,  
  
wherein the polymer blend includes at least one polyamide and at least one polyether ketone or polyether sulfone as blend polymers,  
  
wherein the at least two blend polymers form a co-continuous structure and the carbon fillers are at a higher concentration in one of the blend polymers or in the phase between the blend polymers, or wherein a blend polymer in which the carbon fillers are at a higher concentration forms a continuously conductive matrix in which the at least one further blend polymer is intercalated,  
  
wherein the polymer blend comprises from ~~[[35]]~~ 45 to ~~[[90]]~~ 85 wt% of blend polymers and from ~~[[10]]~~ 15 to ~~[[65]]~~ 55 wt% of carbon fillers, and  
  
wherein the polymer blend contains as carbon fillers  
  
from 1 to 30 wt% of conductive black,  
  
from 5 to 60 wt% of carbon fibers, and  
  
from 1 to 25 wt% of carbon nanotubes,  
  
in each case based on the total weight of the polymer blend, and  
  
the weight ratio, in the polymer blend, of polyamide to polyether ketone/polyether sulfone is from 1:1.6 to 4:1.
2. (previously presented) The bipolar plate as claimed in claim 1, wherein the carbon fillers are selected from conductive black, graphite, carbon fibers, carbon

nanotubes and mixtures thereof.

3 – 6. (canceled)

7. (cancelled) ~~The bipolar plate as claimed in claim 1, wherein the weight ratio, in the polymer blend, of polyamide to polyether ketone/polyether sulfone is from 1:8 to 8:1.~~

8. (previously presented) A method of fabricating bipolar plates as claimed in claim 1 by preparing and shaping the polymer blend filled with conductivity-enhancing carbon fillers.

9. (previously presented) A PEM fuel cell comprising bipolar plates as claimed in claim 1.

10 – 11. (cancelled)